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1 W1-E: communication and information theory symposium: Large code set for PAPR ☐
◈ reduction of OFDM signals and capacity increasing in MC-CDMA system
Khoirul Anwar, Masato Saito, Takao Hara, Minoru Okada, Heiichi Yamamoto
July 2006 **Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06**
Publisher: ACM Press
Full text available: 📄 pdf(549.71 KB)   Additional Information: full citation, abstract, references, index terms

An interest to increase the capacity of multicarrier system such as multi-carrier code division multiple access (MC-CDMA) is attracting many studies to develop spreading code for a higher user capacity. In this paper, we proposes a new large spreading code set that is capable of increasing the capacity of MC-CDMA more than twice, offering better performance due to its *uniform low cross correlations and high autocorrelation* properties and has an additional advantage to reduce peak power of ...

Keywords: MC-CDMA, OFDM, peak-to-average power ratio (PAPR), pseudo-orthogonal carrier interferometry, spreading code

2 An OFDM-TDMA/SA MAC protocol with QoS constraints for broadband wireless ☐
LANs
Xudong Wang, Weidong Xiang
March 2006 **Wireless Networks**, Volume 12 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(635.82 KB)   Additional Information: full citation, abstract, references, index terms

Orthogonal frequency division multiplexing (OFDM) is an important technique to support high speed transmission of broadband traffic in wireless networks, especially broadband wireless local area networks (LANs). Based on OFDM, a new multiple access scheme, called OFDM-TDMA with subcarrier allocation (OFDM-TDMA/SA), is proposed in this paper. It provides more flexibility in resource allocation than other multiple access schemes such as OFDM-TDMA, OFDM-frequency division multiple access (OFDM-FDMA ...

Keywords: medium access control (MAC), orthogonal frequency division multiplexing (OFDM), quality of service (QoS), subcarrier allocation (SA), time division multiplexing access (TDMA), wireless LANs

3 Network Simulation 1: Detailed OFDM modeling in network simulation of mobile ad hoc networks

Gavin Yeung, Mineo Takai, Rajive Bagrodia, Alireza Mehrnia, Babak Daneshrad

May 2004 **Proceedings of the eighteenth workshop on Parallel and distributed simulation PADS '04**

Publisher: ACM Press

Full text available: pdf(152.05 KB)   Additional Information: full citation, abstract, references, citings

In mobile ad hoc network (MANET) studies, it is imperative to use highly detailed device models as they provide high layer protocols with good prediction of underlying wireless communication performance. However, such studies often utilize abstract models for execution speed and simplicity. This paper first shows that physical layer variables including path loss, shadowing, multipath, Doppler have significant effects on the predicted overall networking performance. It then proposes an approach t ...

4 Communication and information theory symposium: wireless networks: Permutated OOK-QPSK in OFDM to reduce the ICI due to carrier frequency offset

Chuanhui Ma, Guillermo E. Atkin, Chi Zhou

August 2007 **Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07**

Publisher: ACM Press

Full text available: pdf(312.74 KB)   Additional Information: full citation, abstract, references, index terms

Orthogonal Frequency Division Multiplexing (OFDM) has attracted significant interests in wireless communications due to its robustness against multi-path fading and high-data-rate transmission. However, conventional OFDM systems are sensitive to the Carrier Frequency Offset (CFO), which causes the Inter-Carrier Interference (ICI) and greatly degrades the system performance. In this paper, we proposed a novel OFDM system using a permutated On-Off-Keying Quadrature-Phase-Shift-Keying (OOK-QPSK) ...

Keywords: CFO, ICI, OFDM, OOK, QPSK, permutation

5 Performance and implementation of clustered-OFDM for wireless communications

Babak Daneshrad, Leonard J. Cimini, Manny Carloni, Nelson Sollenberger

December 1997 **Mobile Networks and Applications**, Volume 2 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(681.28 KB)   Additional Information: full citation, abstract, references, index terms

An elegant means by which high-speed burst wireless transmission can be accomplished with small amounts of overhead is through a novel technique referred to as clustered-OFDM (Cimini et al., 1996). By using OFDM modulation with a long symbol interval, clustered-OFDM overcomes the complex and costly equalization requirements associated with single carrier systems. Moreover, the need for highly linear power amplifiers typically required in OFDM systems is alleviated through the use of multipl ...

6 WLANs: Dynamic single-user ofdm adaptation for ieee 802.11 systems

James Gross, Marc Emmelmann, Oscar Puñal, Adam Wolisz

October 2007 **Proceedings of the 10th ACM Symposium on Modeling, analysis, and simulation of wireless and mobile systems MSWiM '07**

Publisher: ACM

Full text available: pdf(236.49 KB)   Additional Information: full citation, abstract, references, index terms

Earlier paper have demonstrated that the achievable throughput of OFDM systems can benefit significantly from individual modulation/transmit power selection on a per sub-carrier basis according to the actual gain of individual sub-carriers (so called dynamic OFDM scheme). Usage of such approach requires, however, providing support for

additional functionality like: acquisition of the sub-carrier gains, signaling of the used modulation types between the sender and receiver, etc. Therefore dyna ...

Keywords: IEEE 802.11, adaptive modulation, ofdm

7   Poster session: A DSP implementation of OFDM acoustic modem

Hai Yan, Shengli Zhou, Zhijie Jerry Shi, Baosheng Li
September 2007 **Proceedings of the second workshop on Underwater networks WuWNet '07**
Publisher: ACM Press
Full text available: pdf(233.89 KB)   Additional Information: full citation, abstract, references, index terms

The success of multicarrier modulation in the form of OFDM in radio channels illuminates a path one could take towards high-rate underwater acoustic communications, and recently there are intensive investigations on underwater OFDM. In this paper, we implement the acoustic OFDM transmitter and receiver design of [4,5] on a TMS320C6713 DSP board. We analyze the workload and identify the most time-consuming operations. Based on the workload analysis, we tune the algorithms and optimize the code ...

Keywords: DSP, OFDM, acoustic modem, multicarrier

8   W2-D: communication and information theory symposium: Two-dimensional pilot-aided channel estimation for wireless OFDM systems over severe frequency-selective fading environments

Chien-Yu Huang, Wen-Jeng Lin, Jia-Chin Lin, Jung-Shan Lin
July 2006 **Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06**
Publisher: ACM Press
Full text available: pdf(622.19 KB)   Additional Information: full citation, abstract, references, index terms

Orthogonal frequency division multiplexing (OFDM) technique is effective and powerful in high data rate digital transmission due to its spectral efficiency, robustness in multipath propagation environments and ability to cope with intersymbol interference. Channel estimation is a crucial problem in coherent OFDM systems, and the various estimation techniques with particular pilot arrangements have been investigated recently. In this paper, a two-dimensional pilot-aided channel estimation techniq ...

Keywords: OFDM, channel estimation, frequency-selective fading, pilot arrangement

9   T1-A: next generation mobile networks symposium: High peak to average ratio solution in OFDM of 4G mobile systems

Jihad Qaddour
July 2006 **Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06**
Publisher: ACM Press
Full text available: pdf(222.73 KB)   Additional Information: full citation, abstract, references, index terms

The advent of 4G wireless systems has created many research opportunities. The expectations from 4G are high in terms of data rates, spectral efficiency, mobility and integration. Orthogonal Frequency Division Multiplexing (OFDM) is proving to be a possible multiple access technology to be used in 4G. But OFDM comes with its own challenges like high Peak to Average Ratio, linearity concerns and phase noise. This paper proposes a solution to reduce Peak to Average Ratio by clipping method. MATLAB ...

Keywords: OFDM, clipping, fourth generation (4G), peak to average ratio, simulations

10 Communication and information theory symposium: wireless networks: Channel estimation technique with assistance of PN-coded training sequences for wireless OFDM communications

Yan-Chang Chen, Wen-Jeng Lin, Jung-Shan Lin

August 2007 **Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07**

Publisher: ACM Press

Full text available: pdf(384.77 KB)   Additional Information: full citation, abstract, references, index terms

In OFDM systems, channel estimation is a crucial consideration for improving system performance. The channel fading effects are eliminated by the equalization of received signal, and the equalizer coefficients are determined according to the results of channel estimation. In this paper, the channel estimation of OFDM systems in time domain for fast fading channel is investigated and developed. The time-domain channel estimation scheme is achieved by inserting pseudo-noise (PN) sequences in th ...

Keywords: OFDM, PN sequence, channel estimation, least squares

11 M1-D: sensor and wireless resource management symposium: Uplink capacity comparison of non-perfect frequency synchronized cellular OFDM systems

Shameem Kabir Chaudhury, Hrishikesh Venkataraman, Harald Haas

July 2006 **Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06**

Publisher: ACM Press

Full text available: pdf(169.40 KB)   Additional Information: full citation, abstract, references, index terms

Orthogonal frequency division multiplexing (OFDM) is very sensitive to frequency offsets which result in considerable interference. Performance of the system will be exacerbated in the uplink of a cellular deployment with frequency reuse of one. A general mathematical model is developed to calculate the amount of interference in cellular OFDM system considering frequency offset between transmitter (Tx) and receiver (Rx), depending on different multiple access and duplexing techniques. An ideal a ...

Keywords: FDD, FDMA, SINR, TDD, TDMA, adaptive modulation, cellular OFDM, time slot opposing algorithm

12 MIMO systems symposium: detection and estimation: Pilot-assisted channel estimation for STBC-based wireless MIMO-OFDM systems

Bo-Chiuan Chen, Wen-Jeng Lin, Jung-Shan Lin

August 2007 **Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07**

Publisher: ACM Press

Full text available: pdf(404.54 KB)   Additional Information: full citation, abstract, references, index terms

With equipping multiple·antennas at both transmitter and receiver ends, the desired signals in the OFDM wireless communications could be transmitted and received through multiple uncorrelated channels for achieving twofold benefits and high flexibility. For this kind of MIMO-OFDM systems, if the assistance of channel estimation is under consideration, the overall system performance is able to be further enhanced. This paper proposed a pilot-symbol-assisted channel estimation technique for MIM ...

Keywords: MIMO, OFDM, channel estimation, pilot symbols

13 W2-D: communication and information theory symposium: Channel estimation technique assisted by postfixed PN sequences with zero padding for wireless OFDM communications

Hong-Yu Chen, Wen-Jeng Lin, Jung-Shan Lin, Jia-Chin Lin

July 2006 **Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06**

Publisher: ACM Press

Full text available: 🔲 pdf(155.90 KB)   Additional Information: full citation, abstract, references, index terms

> It is well-known that in order to enhance system performance, channel estimation in coherent OFDM systems is necessary and crucial. In practice, lots of coherent OFDM systems transmit pilot symbols over some of the subcarriers for the purpose of estimating channel attenuation, and also insert cyclic prefix to avoid inter-carrier and inter-symbol interference. In this paper, a pseudo noise (PN) sequence combined with zero padding is inserted in the postfix of each OFDM symbol to estimate the chann ...

> **Keywords:** OFDM, PN sequence, Rayleigh fading channel, channel estimation

14 Cross-layer adaptive techniques for throughput enhancement in wireless OFDM-based networks

Iordanis Koutsopoulos, Leandros Tassiulas

October 2006 **IEEE/ACM Transactions on Networking (TON)**, Volume 14 Issue 5

Publisher: IEEE Press

Full text available: 🔲 pdf(482.97 KB)   Additional Information: full citation, abstract, references, index terms

> Although independent consideration of layers simplifies wireless system design, it is inadequate since: 1) it does not consider the effect of co-channel user interference on higher layers; 2) it does not address the impact of local adaptation actions on overall performance; and 3) it attempts to optimize performance at one layer while keeping parameters of other layers fixed. Cross-layer adaptation techniques spanning several layers improve performance and provide better quality of service for u ...

> **Keywords:** cross-layer design, multicell systems, orthogonal frequency-division multiplexing (OFDM), resource allocation

15 Session 33: low-power, thermal-aware architectures: Energy-scalable OFDM transmitter design and control

Björn Debaillie, Bruno Bougard, Gregory Lenoir, Gerd Vandersteen, Francky Catthoor

July 2006 **Proceedings of the 43rd annual conference on Design automation DAC '06**

Publisher: ACM Press

Full text available: 🔲 pdf(1.01 MB)   Additional Information: full citation, abstract, references, index terms

> Orthogonal Frequency Division Multiplexing (OFDM) is the modulation of choice for broadband wireless communications. Unfortunately, it comes at the cost of a very low energy efficiency of the analog transmitter. Numerous circuit-level and signal processing techniques have been proposed to improve that energy efficiency. However more disruptive improvement can be achieved at system-level, capitalizing on energy-scalable design and circuit reconfiguration to match the user requirements and operati ...

> **Keywords:** OFDM, energy management, energy-aware design, energy-scalability

16 W1-E: communication and information theory symposium: VLSI implementation of programmable FFT architectures for OFDM communication system
Shuenn-Yuh Lee, Chia-Chyang Chen
July 2006 **Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06**
Publisher: ACM Press
Full text available: pdf(3.22 MB)   Additional Information: full citation, abstract, references, index terms

> Two programmable FFT processors for OFDM (Orthogonal Frequency Division Multiplex) communication systems are presented in this paper. Coolay-Tukey radix-2/4/8 algorithm and mixed-radix-2/2^2/2^3 are employed in the pipelined SDF (Single-path Delay Feedback) architecture and pipelined MDC (Multiple-Path Delay Commutator) shared-memory architecture, respectively. The size of FFT processors with power of 2 can be programmable in the range between 64 and 8192. Based on the progra ...
>
> **Keywords**: FFT processor, VLSI architecture, low power

17 High level power modeling and analysis: Minimizing power consumption and complexity in a programmable transmit filter bank for OFDM
Alireza Mehrnia, Babak Daneshrad
August 2004 **Proceedings of the 2004 international symposium on Low power electronics and design ISLPED '04**
Publisher: ACM Press
Full text available: pdf(458.60 KB)   Additional Information: full citation, abstract, references, index terms

> Filter banks are efficient and essential signal processing blocks for design and implementation of multi-rate multi-band communications and signaling. In this paper we analytically study and derive the optimum choice of design parameters and filter bank structure to minimize power consumption and implementation cost for a programmable multi-rate transmit filter bank for OFDM. The optimization is performed on two fronts. We first perform system-level power and complexity analysis to define the op ...'
>
> **Keywords**: IFIR, OFDM, filter bank, low power design, multi-rate signal processing

18 Special session 2: Future mobile communication -- technology trends: A novel coded MIMO-OFDM scheme
Gang Wu
October 2006 **Proceedings of the 3rd international conference on Mobile technology, applications & systems Mobility '06**
Publisher: ACM Press
Full text available: pdf(123.75 KB)   Additional Information: full citation, abstract, references

> Coded MIMO-OFDM is the main feature of Beyond 3G mobile communication system. In this paper, we present a Coded MIMO OFDM scheme, namely Spatial Temporal Turbo Channel Coding (STTCC). The scheme combines channel coding (trellis/turbo), modulation and spatial multiplexing together to achieve high data rate and performance, and is effective with a small number of receive antenna. This includes the case of only one receive antenna, to meet the weight, size and battery consumption requirements of ...
>
> **Keywords**: 3GPP, LTE, MIMO, OFDM, STTCC, coding

19
Communication and information theory symposium: wireless communications: Predictive transmit beamforming for MIMO-OFDM in time-varying channels with

limited feedback
Jae Yeun Yun, Sae-Young Chung, Jihoon Choi, Yong-Up Jang, Yong H. Lee
August 2007 **Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07**
Publisher: ACM Press
Full text available: pdf(252.23 KB)   Additional Information: full citation, abstract, references, index terms

A limited feedback-based transmit beamforming technique for multiple-input multiple-output orthogonal frequency division multiplexing (MIMO-OFDM) is investigated in time-varying channels. The performance of the system is significantly degraded by outdated feedback information even when the channel varies slowly. To compensate for the impairment in time-varying channels, the optimal transmit beamforming vector for a future channel, which maximizes the expected effective channel gain, is derive ...

Keywords: MIMO-OFDM, prediction, time-varying channel, transmit beamforming

20 MIMO systems symposium: coding and decoding: Space-frequency precoding scheme for multiuser MIMO-OFDM systems
Wei Wang, Chunlin Yan, Zhan Zhang, Hidetoshi Kayam
August 2007 **Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07**
Publisher: ACM Press
Full text available: pdf(383.95 KB)   Additional Information: full citation, abstract, references, index terms

In multiuser MIMO-OFDM closed-loop system downlink, a proper scheduling algorithm can be used to extract the multi-user diversity by pouring more space-time-frequency (STF) resources to the user with better channel quality. For these systems, we aim to achieve further improvement without increasing the feedback overhead, and without sacrificing the performance gain the multiuser scheduling can provide. In this paper, a new space-frequency precoding scheme is proposed which makes better use of ...

Keywords: MIMO, OFDM, precoding, space-frequency coding

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